

**Time: 3 Hours**

Total Marks: 80

**Note: 1) Question No.1 is compulsory.**

**2) Attempt any THREE from the remaining questions.**

**3) Figures to the right indicate full marks.**

1. Write Short Notes on any four :- (20)

  - a) Google AppEngine (GAE)
  - b) RMI
  - c) Thread Models
  - d) Desirable features of Distributed File System
  - e) Evolution of DCS

2. (a) Explain process migration mechanism in detail 10

(b) Explain with suitable diagram distributed computing system models. 10

3. (a) Discuss various Election algorithms in detail 10

(b) Discuss the issues in designing and implementing DSM systems. 10

4. (a) What is RPC? Explain in detail RPC execution. 10

(b) What is Cloud computing? Explain different Cloud based services. 10

5. (a) Explain security issues in cloud computing? 10

(b) Discuss issues in clock synchronization and explain synchronization algorithms. 10

6. (a) Explain architecture of Distributed Shared Memory systems with diagram 10

(b) Explain group communication. 10

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